EXHIBIT 100

PUBLIC

	Page 1
1	UNITED STATES DISTRICT COURT
	EASTERN DISTRICT OF VIRGINIA
2	ALEXANDRIA DIVISION
3	x
4	UNITED STATES, et al., :
5	Plaintiffs, :
6	v. : Case No.
7	GOOGLE, LLC, : 1:23-cv-00108
8	Defendant. :
9	x
	Monday, March 4, 2024
10	Washington, D.C.
11	
	Job No. CS6484199
12	Videotaped Deposition of:
13	WAYNE D. HOYER, Ph.D.,
14	called for oral examination by counsel for the
15	Defendant, pursuant to notice, at the United States
16	Department of Justice, Antitrust Division, 450 Fifth
17	Street, Northwest, Suite 11-248, Washington,
18	D.C. 20001, before Christina S. Hotsko, RPR, CRR, of
19	Veritext Legal Solutions, a Notary Public in and for
20	the District of Columbia, beginning at 8:33 a.m.,
21	when were present on behalf of the respective
22	parties:

Veritext Legal Solutions 973-410-4098

Page 2	Page 4
1 APPEARANCES 2 On behalf of Plaintiffs:	1 PROCEEDINGS
AARON SHEANIN, ESQUIRE	2 (Hoyer Deposition Exhibits 1 and 2
3 U.S. Department of Justice Antitrust Division	3 premarked for identification and attached
4 450 Golden Gate Avenue, Suite 10-0101 San Francisco, California	4 to the transcript.)
5 (415) 229-2930	5 VIDEO TECHNICIAN: Good morning. We're
aaron.shearnin@usdoj.gov 6	6 going on the record at 8:33 a.m. on March 3rd
CHASE PRITCHETT, ESQUIRE 7 United States Department of Justice	
Antitrust Division	7 I'm sorry, March 4th, 2024.
8 450 Fifth Street, Northwest, Suite 11-248 Washington, D.C. 20001	8 This is media 1 of the video-recorded
9 (202) 307-0924 chase.pritchett@usdoj.gov	9 deposition of Professor Wayne Hoyer, taken by
10	10 counsel for the plaintiff in the matter of United
11 On behalf of Defendant: MEREDITH R. DEARBORN, ESQUIRE	11 States
12 Paul Weiss Rifkind Wharton & Garrison, LLP 535 Mission Street, 24th Floor	MR. SHEANIN: Counsel for defendant.
13 San Francisco, California 94105	13 VIDEO TECHNICIAN: I'm sorry.
(628) 432-5113 14 mdearborn@paulweiss.com	14 by counsel for defendant in the matter
15 ANITA Y. LIU, ESQUIRE Paul Weiss Rifkind Wharton & Garrison, LLP	15 of United States, et al., versus Google, LLC,
16 2001 K Street, Northwest	16 filed in the District Court of the Eastern
Washington, DC 20006-1047 17 (202) 223-4363	17 District of Virginia, case
aliu@paulweiss.com	18 number 1:23-CV-00108-LMB-JFA.
19 Also Present:	The location of the deposition is at the
Warren Brey, Video Technician Suzanne Majewski, Economist, DOJ Antitrust Division	20 DOJ Antitrust Division Offices, 450 Fifth Street,
Elizabeth Aramayo, DOJ Antitrust Division 21 Claire Cushman, DOJ Antitrust Division	21 Northwest, Washington, D.C.
Marie Lise Levry, DOJ Antitrust Division	22 My name is Warren Brey representing
22	, , , ,
Page 3	Page 5 1 Veritext Legal Solutions. I'm the videographer.
1 CONTENTS 2 EXAMINATION BY: PAGE	
	2 The court reporter is Christina Hotsko from the
3 Counsel for Defendant 06	3 firm of Veritext Legal Solutions.
4 Counsel for Plaintiffs 457	4 Counsel, please introduce yourselves for
5	5 the record.
6	6 MS. DEARBORN: Meredith Dearborn,
7 HOYER DEPOSITION EXHIBITS: PAGE	7 Paul Weiss, for Google.
8 Exhibit 1 Hoyer Expert Report and Errata 04	8 MS. LIU: Anita Liu from Paul Weiss for
9 Exhibit 2 Simonson Expert Report 04	9 Google. L-i-u.
10 Exhibit 3 Research Article 198	MR. SHEANIN: Aaron Sheanin on behalf of
11 Exhibit 4 Advertiser Perceptions Website Printout 238	11 the United States.
12 Exhibit 5 Article, Service brand relationship 328	MR. PRITCHETT: Chase Pritchett on behalf
quality: Hot or cold?	13 of the United States.
13	MS. MAJEWSKI: Suzanne Majewski on behalt
14	15 of the United States.
15	16 VIDEO TECHNICIAN: And court reporter,
16	1
16 17	17 please swear in the witness.
16 17 18	17 please swear in the witness. 18 Whereupon,
16 17 18 19	 17 please swear in the witness. 18 Whereupon, 19 WAYNE D. HOYER, Ph.D.,
16 17 18 19 20	17 please swear in the witness. 18 Whereupon, 19 WAYNE D. HOYER, Ph.D., 20 being first duly sworn or affirmed to testify to
16 17 18 19	 17 please swear in the witness. 18 Whereupon, 19 WAYNE D. HOYER, Ph.D.,

2 (Pages 2 - 5)

Veritext Legal Solutions 973-410-4098

Page 14 Page 16 1 Q. Okay. So you did not identify any flaws 1 in the surveys, the three surveys that 2 in Dr. Simonson's study that you did not lay out 2 Dr. Simonson conducted, were inappropriate or too 3 in your report? 3 small, right? A. Yes, that's correct. A. My issue is not with the sample size; Q. Okay. Is there anything in the way that 5 it's with the representativeness of the sample. 6 Dr. Simonson conducted his survey that you agree 6 Q. Great. And we'll get into a little bit 7 with? 7 of that later. 8 But you agree that the respondent sample 8 A. He did some things right, but there are 9 major flaws in the report. 9 size numbers are large enough to draw robust 10 Q. What did he do right? 10 conclusions in each of Dr. Simonson's reports, A. Well, he attempted -- he asked certain 11 11 right? 12 questions that were not leading, but some of the 12 A. Well, it's not just about numbers. It's 13 key questions in the report were quite flawed. 13 about -- representativeness is a bigger issue. Q. What questions that he asked -- did he Q. Understand. But just to focus you on my 14 15 ask that were not leading? 15 question, you agree that the respondent sample A. I don't have it -- I don't remember 16 size numbers in each of Dr. Simonson's three 17 surveys were large enough to draw robust 17 the -- I don't have it memorized. If you want to 18 go to his survey, I could look at that. 18 conclusions, correct? 19 19 Q. It's fair to say that if you didn't MR. SHEANIN: Asked and answered. 20 20 identify a critique of a question in your report, THE WITNESS: Again, I stand by my 21 you think that the question was phrased 21 previous answer. 22 appropriately? 22 Page 15 Page 17 1 A. I would say that. Yes. 1 BY MS. DEARBORN: 2 Q. Okay. Did you take issue with any other 2 Q. I actually need an answer to my question, 3 aspect of Dr. Simonson's methodology other than 3 which is, you agree that the respondent sample 4 the ones that you identified in your report? 4 size numbers in each of Dr. Simonson's three 5 surveys are large number to draw robust 5 A. Not that I can remember. The main 6 criticisms are in my report. 6 conclusions, correct? 7 Q. Okay. So in your report you do not 7 MR. SHEANIN: Counsel --8 criticize Dr. Simonson's decision to use \$500,000 8 BY MS. DEARBORN: 9 as the cutoff line between the higher and the 9 Q. Setting aside the representativeness 10 lower spend surveys, correct? 10 issue. 11 11 MR. SHEANIN: Asked and answered. A. Yes. I do not criticize that. 12 Q. You think that was an appropriate line to 12 THE WITNESS: What was --13 draw? MR. SHEANIN: I said asked and answered. 13 A. Well, in retrospect, looking at the 14 BY MS. DEARBORN: 15 distribution of the advertising spend, I think the Q. You can answer the question. 15 16 high end could be higher, but I don't think 16 A. The sample size is adequate. 17 that -- see that as a major flaw. 17 Q. Thank you, Dr. Hoyer. Q. Okay. That dividing line doesn't render 18 And you don't criticize Dr. Simonson's 19 Dr. Simonson's report methodologically unreliable 19 decision to rely on a third party to assemble a 20 in your view? 20 panel of respondents, correct? 21 21 A. That's correct. A. Correct. That is done routinely in 22 Q. And you do not think in that sample sizes 22 research.

5 (Pages 14 - 17)

Page 18

- 1 Q. Okay. And you didn't find any 2 quantitative errors in the way that Dr. Simonson
- 3 tabulated his results, right?
- A. Not specific tabulation errors, but some
- 5 in reporting of the results.
- Q. Okay. And focusing on the agency survey
- 7 for a moment, you don't question Dr. Simonson's
- 8 instruction to ask agency respondents to focus on
- 9 the client on which they spend the most time,
- 10 right?
- 11 A. I don't criticize that, no.
- 12 Q. Okay. And I know -- we'll talk a little
- 13 bit about some questions you have given the length
- 14 of the surveys, but as a general matter, you don't
- 15 think 38 or 39 question is too many to ask
- 16 respondents in a survey, right?
- 17 MR. SHEANIN: Objection to form.
- 18 THE WITNESS: It depends. It's not just
- 19 the number of questions; it's how detailed those
- 20 questions are. So -- but it's usually in -- that
- 21 would be a reasonable size of a survey.
- 22

Page 19

- 1 BY MS. DEARBORN:
- 2 Q. Thank you.
- And we'll talk a little bit about some of
- 4 your criticisms of Dr. Simonson's exclusion of
- 5 people who took too long to take the survey, or
- 6 not long enough.
- But as a general matter, you agree that
- 8 it's appropriate to exclude people who took the
- 9 survey too quickly and those who took too long,
- 10 right?
- 11 A. That is something that's typically done
- 12 in research, but I don't think he went far enough
- 13 in this case.
- Q. Okay. Thank you. And we'll talk a
- 15 little bit later about your criticisms in that
- 16 regard. Thank you, Dr. Hoyer.
- 17 Now, you'd agree that your typical
- 18 process for preparing an academic study is to
- 19 identify a hypothesis you want to test and then to 19 wouldn't have done it. That was not my
- 20 design a study, whether it be a study or
- 21 experiment, to test that hypothesis, right?
- 22 A. Not in all research. That's the way I do

1 research. But there are quantitative researchers

- 2 that start with the data and then develop a
- 3 hypothesis.
- 4 Q. Yeah. In this case, did you start with a
- 5 hypothesis?
- A. I didn't see a hypothesis. Not that I 6
- 7 can recall.
- 8 Q. You didn't start with a hypothesis and
- 9 then test your results.
- 10 A. Normally, when you test a hypothesis,
- 11 there's a literature review that talks about all
- 12 the literature and then come up to a formal
- 13 specific hypothesis. And I did not see that in
- 14 the report.
- 15 Q. You didn't see that in Dr. Simonson's
- 16 report?
- 17 A. Right.
- Q. I'm asking, actually, about your process 18
- 19 in coming up with --
- 20 A. Oh, in my process, I'm sorry.
- 21 Q. Yeah, with your -- in preparing your
- 22 report in this case, did you start with a

Page 21

Page 20

- 1 hypothesis and then test that conclusion?
 - 2 A. No, I did not, because that was not my
- 3 assignment. I was there to simply review and
- 4 evaluate Professor Simonson's report, and that's
- 5 not a research study where I'm collecting data to
- 6 test that hypothesis.
- 7 Q. Okay. Thank you.
- 8 You did not conduct a survey in this
- 9 case, right?
- A. Correct. I did not. 10
- 11 Q. Why not?
- 12 A. That was not part of my assignment. And
- 13 a survey typically takes four to six weeks at
- 14 least to conduct, and I had three weeks to produce
- 15 this report.
- Q. So you didn't have enough time to 16
- 17 complete a survey of your own?
- 18 A. Well, even if I had enough time, I
- 20 assignment.
- 21 Q. Okay. Did anyone tell you not to conduct
- 22 a survey in this case?

6 (Pages 18 - 21)

Veritext Legal Solutions 800-567-8658 973-410-4098

Page 22 Page 24 1 MR. SHEANIN: Objection to form. 1 A. No. 2 2 Q. All right. THE WITNESS: I did not collect any data, 3 3 but I re-analyzed some of Simonson's data to MR. SHEANIN: Counsel -- on that last 4 support some of my conclusions. 4 question, I just want to caution you not to get 5 into contents of communication between yourself 5 BY MS. DEARBORN: Q. And that's -- the data you're identifying 6 and counsel or yourself and your staff. MS. DEARBORN: That's completely fine. 7 is the data that Dr. Simonson provided in the 8 backup to his report? 8 BY MS. DEARBORN: 9 Q. I want to be clear, in all of my A. Yes. That's correct. 10 Q. Okay. Other than what is identified in 10 questions here today, I'm not attempting to get 11 into the substance of conversations between 11 your report, did you do anything else to 12 yourself and counsel for the Department of 12 empirically test your conclusions about whether 13 the errors in Dr. Simonson's report would impact 13 Justice. 14 A. Okay. 14 the results? 15 Q. You can set that aside in your answers. 15 A. No, I did not. 16 A. Okay. 16 Q. And I think I asked a bad question, so 17 Q. I do, however, want to understand the 17 let me ask it again. 18 scope of your assignment. And I think that's an 18 Other than what is identified in your 19 appropriate line of questions to ask, subject to 19 report, did you do anything to empirically test 20 whether Dr. Simonson's -- the errors that you 20 your counsel's objections. 21 21 identified in Dr. Simonson's report would impact So just to be clear, you did not try to 22 his results? 22 conduct a survey or an experiment that corrected Page 23 Page 25 MR. SHEANIN: Objection to form. 1 any of the errors that you identified in 1 2 THE WITNESS: No, I did not collect any 2 Dr. Simonson's report, correct? 3 A. I did not conduct a survey. 3 additional data. 4 BY MS. DEARBORN: 4 Q. Okay. So for example, you didn't conduct 5 a survey that asked whether -- strike that. 5 Q. Okay. This might be implicit in your 6 prior answers, but let me just ask anyway. In preparing your opinions in this case, 7 did you do anything to empirically test how the In preparing to -- your report in this 8 errors you identified, if corrected, would impact 8 case, did you talk to any advertisers? 9 9 the results that he reached? A. No, I did not. 10 10 Q. Did you gather any information from MR. SHEANIN: Objection to form. 11 THE WITNESS: Could you clarify about 11 advertisers or advertising agencies? 12 what you mean empirically test? 12 A. No, I did not. 13 BY MS. DEARBORN: 13 Q. Is it fair to say that you restricted 14 your analysis to the data that Dr. Simonson Q. Well, what does the word "empirically" 15 collected? 15 mean to you? 16 A. It means collect data. 16 A. I -- well, what he collected, yes. 17 Q. So using that definition, in preparing 17 Q. Okay. Do you have any experience 18 your opinions in this case, did you do anything to 18 purchasing digital advertising? 19 A. No. My expertise is in survey 19 empirically test how the errors that you 20 methodology and consumer behavior. 20 identified in Dr. Simonson's report, if they were 21 Q. Okay. Do you have any experience using 21 corrected, would impact the results that he 22 reached? 22 ad tech tools?

7 (Pages 22 - 25)

Page 26 Page 28 1 A. I do not. Again, my expertise is in 1 be of consumers? A. I would have to -- I don't have my --2 survey methodology and consumer behavior. And 2 3 marketing communications. 3 I've done hundreds of studies. I don't have 4 Q. Have you ever conducted a survey of 4 every -- the large majority. 5 advertisers before? 5 Q. Large majority would be of consumers? A. Of advertising? 6 A. Yes. 6 7 Q. Uh-huh. Advertisers. Q. Okay. And is it fair to say that, in the A. Advertisers? As -- do you mean them as 8 litigation context, your surveys are usually in 9 the subject of likelihood of confusion in 9 the sample? 10 Q. Yes. 10 trademark cases? 11 A. Not always. One of my surveys was on 11 A. No, I have not. 12 Q. Okay. Would you agree that vendor or 12 deceptive advertising. 13 advertiser decisionmaking processes might be Q. Okay. But all of your surveys have 13 14 been -- have pertained to whether -- strike that. 14 different from consumer decisionmaking processes? 15 MR. SHEANIN: Objection to form. 15 All of your surveys have pertained to --16 THE WITNESS: My assignment was not to 16 have surveyed the population of consumers, right? 17 MR. SHEANIN: Objection to form. 17 evaluate the decision process. It was to evaluate THE WITNESS: That is correct. 18 questions asked of advertisers. And questions, 18 19 survey methodology, the -- the basic principles 19 BY MS. DEARBORN: 20 are the same across any target --20 Q. You're not an expert in advertiser 21 BY MS. DEARBORN: 21 decisionmaking, right? 22 22 A. Can you define that term? Q. Okay. Page 27 Page 29 1 A. -- audience. Q. Well, you know what the phrase "consumer 2 Q. How many surveys have you prepared for 2 decisionmaking" means, right? 3 litigation purposes? 3 A. Yes. 4 A. Three. Actually, I've done a fourth one, Q. And you would agree that advertisers 5 but that's currently ongoing, and my report was 5 might use different processes to come to decisions 6 just submitted and I can't talk about that. 6 or take different things into consideration when 7 Q. Can you describe at a high level what the 7 making decisions than consumers, right? 8 subject matter of that survey is? 8 MR. SHEANIN: Objection to form. 9 MR. SHEANIN: I'm going to caution you 9 THE WITNESS: I do, in my class, talk 10 about decisions that advertisers need to make in 10 that if it's something that's confidential, you 11 should not disclose anything that would violate 11 their advertising strategy. 12 any kind of confidentiality. 12 BY MS. DEARBORN: 13 THE WITNESS: I can only tell you the 13 Q. Okay. So would you characterize yourself 14 topic. It's on understanding -- for credit 14 as an expert in advertiser decisionmaking?

THE WITNESS: Again, as I said, I talk about factors that go into advertiser

A. I would classify myself as an expert in

Q. Okay. How -- would you classify yourself

MR. SHEANIN: Asked and answered.

16 advertising and marketing communications.

18 as an expert in advertiser decisionmaking?

22 decisionmaking. I've not done research

8 (Pages 26 - 29)

15

17

19

18

20

21

15 union -- customers understanding credit union

19 conducted outside of the litigation context?

Q. Okay. And how many surveys have you

Q. Okay. Of all the surveys that you've

22 conducted, what percentage, approximately, would

16 terms for their account.

17 BY MS. DEARBORN:

A. Hundreds.

Page 30 Page 32 1 specifically on how they make decisions. Q. Do you agree that he's an expert in 2 BY MS. DEARBORN: 2 behavioral economics? Q. Okay. You have not specifically A. I would say he is an expert. I am not in 4 researched how advertisers come to decisions in 4 the area of behavioral economics, but I would 5 the course of their business, right? 5 assume that he is an expert in behavioral A. Yes --6 6 economics. 7 MR. SHEANIN: Asked and answered. Q. Okay. And you agree that Dr. Simonson is 8 THE WITNESS: I have general knowledge 8 qualified to prepare surveys, right? 9 about advertising decisionmaking. 9 A. Yes. He would be. 10 BY MS. DEARBORN: 10 Q. And he's also qualified to interpret Q. But you have not specifically studied how 11 their results? 12 12 advertisers come to decisions, correct? A. Yes, he is. 13 A. Right --13 Q. So you're not critiquing him for straying 14 MR. SHEANIN: Asked and answered. 14 beyond the bounds of his expertise, right? 15 THE WITNESS: Sorry. Yes. 15 MR. SHEANIN: Objection to form. 16 BY MS. DEARBORN: 16 THE WITNESS: No, I'm not criticizing him Q. In this case, would it have been possible 17 on those grounds. 18 BY MS. DEARBORN: 18 for you to conduct what you view as a 19 methodologically appropriate survey? 19 Q. Okay. And you agree that he's qualified 20 MR. SHEANIN: Objection to form. 20 to prepare the report that he submitted in this 21 21 case? THE WITNESS: Again, that was not part of 22 my assignment. 22 A. He's qualified, but he did make flaws. Page 31 Page 33 1 BY MS. DEARBORN: 1 There are flaws in his report. 2 Q. Okay. You may disagree with his Q. Okay. But would it have been possible 3 conclusions or the way that he conducted his 3 for you to do? 4 4 report --MR. SHEANIN: Same objection. 5 THE WITNESS: Again, that was not part of 5 A. Right. Q. -- but you don't think he is unqualified 6 my assignment. 7 BY MS. DEARBORN: 7 to offer these opinions, right? 8 A. No. Q. That's not my question. 9 MR. SHEANIN: Objection to form. 9 Would it have been possible for you to 10 conduct a methodologically appropriate survey in 10 BY MS. DEARBORN: 11 this case? 11 Q. All right. Have you ever worked together 12 with Dr. Simonson? 12 MR. SHEANIN: Objection to form. THE WITNESS: Theoretically, yes, but A. I have not worked on research with him, 13 13 14 but we were on a trip together in China. 14 actually, operationally, no, in the time 15 constraint. Q. When was that? 15 16 BY MS. DEARBORN: 16 A. 2002. 17 Q. Okay. Do you know Dr. Itamar Simonson? 17 Q. Have you co-authored any papers with 18 A. I do. 18 Dr. Simonson? 19 19 A. No, I have not. Q. Do you agree that he's an expert in 20 Q. Have you ever evaluated Dr. Simonson's 20 marketing? 21 work before? A. Yes. He's a well-known expert in 22 MR. SHEANIN: Objection to form. 22 marketing.

9 (Pages 30 - 33)

973-410-4098

Page 34 Page 36 1 THE WITNESS: I have read his work. But 1 psychologist, so I'm interested in how people 2 in my extensive reviewing -- well, the review 2 think and process information. So advertising 3 process is blind, so I can't tell you whether I 3 information processing would be when a consumer --4 have or not. It's possible, but I don't know. 4 and actually, it's broader, any kind of marketing 5 BY MS. DEARBORN: 5 communication, when they see some kind of 6 communication, how do they process it in their Q. Fair. So to your knowledge, you haven't 7 reviewed Dr. Simonson's work before? 7 mind and does it affect their behavior? MR. SHEANIN: Objection to form. Q. You've said a couple of times that you're 9 THE WITNESS: Yes. To my knowledge, I 9 a consumer psychologist. 10 What does that mean? 10 have not. 11 BY MS. DEARBORN: 11 A. My Ph.D. is in psychology. So I studied Q. Okay. What is your assessment of 12 under one of the most famous consumer 13 Dr. Simonson's research record, as a general 13 psychologists, Jacob Jacoby. It was at Purdue 14 University, where I worked under him in my Ph.D. 14 matter? 15 A. He's a well-respected researcher. 15 But I have a degree, Ph.D., in Q. How, if at all, do your areas of 16 psychology. 17 expertise differ from those of Dr. Simonson? 17 Q. Okay. Are you an expert in the ad tech A. The biggest one is I'm a psychologist, 18 industry? 19 19 and he's a behavioral economist. And I actually A. No, I'm not. 20 have a gripe against behavioral economists. 20 Q. Have you ever conducted a survey 21 Things they're saying now, we were saying 30 years 21 involving ad tech in any way before? 22 ago, and they've just discovered it and acting 22 A. No. I have not. Page 35 Page 37 1 like it's a new discovery. And we were saying 1 Q. And when I -- I should have clarified. 2 Do you understand what the term "ad tech" 2 that -- I've done work in the '80s that people are 3 now doing the same thing and saying, wow, this is 3 means? 4 A. I do. 4 new. And that's not true. 5 Q. What is your understanding of that term? 5 Q. So your gripe against behavioral A. Ad tech is the different tools to buy 6 economists is not that they are somehow wrong; 6 7 it's that they're doing something that you have 7 advertising for display -- programmatic display 8 advertising. 8 been doing for a long time? Q. Okay. And again, you've never conducted A. Yeah. For example, the book by Daniel 9 10 a survey of advertisers before, right? 10 Kahneman, Think Fast --11 11 MR. SHEANIN: Asked and answered. Q. Thinking, Fast and Slow? 12 THE WITNESS: That is correct. 12 A. I was talking about those things in early 13 1980s. 13 BY MS. DEARBORN: Q. Outside of your work on this case, had Q. Got it. In paragraph 1 of your report, 15 you ever heard of Advertiser Perceptions before? 15 you indicate that your research areas including 16 branding, including brand personality and brand 16 A. You mean the firm? 17 sabotage, advertising information processing, and 17 Q. Yes. 18 cause-related marketing, right? 18 A. No. 19 19 Q. So the first time you heard of Advertiser A. Yes. 20 Perceptions was in connection with this 20 Q. What is advertising information 21 litigation? 21 processing? 22 22 A. That's correct. A. That is -- again, I'm a consumer

10 (Pages 34 - 37)

Veritext Legal Solutions 973-410-4098

Q. Okay. And I believe earlier, when we

2 spoke about the use of a panel or rely -- or a

3 third-party company to assemble a panel of

4 respondents, you said that that's common in the

5 industry?

1

- 6 A. Yes, it is.
- 7 Q. So have you relied on companies to
- 8 assemble a panel of respondents for you in surveys
- 9 that you've conducted in the past?
- 10 A. Yes, I have.
- 11 Q. How often have you done that?
- 12 A. Well, on every survey I did.
- 13 Q. Very common, then.
- 14 A. Yes.
- 15 Q. When you have used a third-party company
- 16 to assemble a panel of respondents, what, if
- 17 anything, have you done to verify how they select
- 18 their panel?
- 19 A. Well, I ask them about the details, and
- 20 then I carefully look at what samples have
- 21 resulted from those.
- Q. How do you confirm that the panel was

- Page 38 Page 40

 1 Q. So you compared the percentage of owners
 - 2 of the vehicles to the total population and --
 - 3 A. No. It was in the population of people
 - 4 that bought the GM vehicles. So there were
 - 5 different models. Okay? And in the population,
 - 6 there were X percent that owned one type of
 - 7 vehicle, X percent owned another type of vehicle,
 - 8 and those same percentages were in the panel.
 - 9 Q. Got it. So you confirmed that the panel
 - 10 that you had assembled had approximately the same
 - 11 distribution of vehicle ownership --
 - 12 A. Correct.
 - 13 Q. -- as the general population?
 - 14 A. Yes, that's correct.
 - 15 Q. Is there anything else that you did to
 - 16 verify the representativeness of the panel that
 - 17 you used in that example?
 - 18 A. I carefully evaluated the sample, but
 - 19 it's been a while so I don't remember the details.
 - Q. And is that your general practice, to
 - 21 essentially compare the percentage of the --
 - 22 strike that.

Page 39

- 1 representative of the population that you're
- 2 seeking to study?
- 3 A. Well, typically, for example, in my
- 4 surveys, one of my surveys -- it was for General
- 5 Motors, and the panel -- or the respondents had to
- 6 be owners of a particular set of vehicles during a
- 7 time frame.
- 8 And so I carefully cross-checked that
- 9 data against the -- what the percentage was in the
- 10 population versus what the percentage was in my
- 11 panel.
- 12 Q. And in that example, you're
- 13 cross-checking the percentage of your panel that
- 14 were owners of a particular set of vehicles
- 15 against the general population?
- 16 A. Well, not the general population. The
- 17 subject of the survey was owners of those vehicles
- 18 during a very specific period.
- 19 Q. Okay.
- A. And so I had data on how many there were
- 21 of those of the total population and then how many
- 22 were in the sample.

- Is that your -- was the example -- was
- 2 the process that you used in that example your
- 3 general practice in terms of verifying the
- 4 representativeness of a panel?
- 5 A. Yes. So for example, another survey I
- 6 just did, the sample population were in different
- 7 states -- 95 percent were in Alabama, 2 percent
- 8 were in Texas, and some percent in Florida -- and
- 9 I got a panel and I carefully evaluated that there
- 10 were the same percentages of respondents in the
- 11 sample as in those states.
- 12 Q. Okay. Other than verifying that the
- 13 population that you are sampling has approximately
- 14 the same percentage of a key attribute as the
- 15 general population, is there anything else that
- 16 you do, typically, to evaluate a panel for a
- 17 survey that you're conducting?
- 18 A. Well --
- 19 MR. SHEANIN: Objection to form.
- 20 THE WITNESS: My example is to give --
- 21 usually, it's multiple things; it's not just one
- 22 thing. So it would be you want the right

11 (Pages 38 - 41)

Page 41

Veritext Legal Solutions 973-410-4098

Page 42 Page 44 1 proportion of men to women, the right proportion 1 representative of the target population to which 2 of -- it depends on the survey. But in my one 2 I'm trying to draw conclusions. 3 survey I was just talking about, they had to be Q. And I'm trying to get at your process for 4 customers of a credit union. So if they were not 4 determining representativeness. 5 customers of a credit union, then they were not 5 A. Right. 6 included in the sample. 6 Q. So your -- when you attempt to ensure So we had to make sure -- we give the 7 that your survey population is representative and 8 panel -- the person who runs the panel and their 8 you are relying on a third party, another company, 9 company specific criteria that they have to meet 9 to do that for you, we've talked about checking to 10 for the sample. 10 ensure that the percentages of the target 11 BY MS. DEARBORN: 11 population that you're sampling are approximately 12 Q. Right. And I'm trying to get at your 12 the same on a key attribute that you're attempting 13 typical practice for --13 to measure. A. Right. That's the typical practice. 14 Is there anything else that you do to 15 Q. Okay. Let me just -- I'll finish my 15 ensure that the survey population that you have 16 question and you can finish your answer. 16 created or that the company has created is 17 So is your typical practice to give the 17 representative? 18 company that you're using to assemble a panel 18 MR. SHEANIN: Objection to form. 19 THE WITNESS: The process is simply to 19 criteria that they have to meet for the sample in 20 terms of percentage of distribution of what you're 20 make sure, on all the key criteria, to qualify 21 trying to study? 21 them. And it can be demographics, but it can also 22 MR. SHEANIN: Objection to form. 22 be, as I said, user of the product or whatever. Page 43 Page 45 1 THE WITNESS: Yes, except they don't 1 We're very thorough to make sure we -- "we," I 2 assemble a panel. They have a panel. 2 mean the panel company with myself working with 3 BY MS. DEARBORN: 3 them -- to make sure that that sample is 4 O. Okav. 4 representative. 5 A. So they might have 130,000 people in that 5 BY MS. DEARBORN: 6 panel, and you want to systematically select those Q. Okay. I'd like to turn your attention to 7 that meet your target from that panel. 7 paragraph 64 of your report.

- In this paragraph you use the acronym AP. 8
- 9 That stands for Advertiser Perceptions,
- 10 right?
- 11 A. Yes.
- 12 Q. Did you do anything yourself to test the
- 13 quality of Advertiser Perceptions' panels?
- 14 A. Could you clarify what you mean by that?
- 15 Q. Sure. So you understand that
- 16 Advertiser Perceptions has something calls the
- 17 AdPROs panel?
- 18 A. Yes.
- 19 Q. What do you understand the AdPROs panel
- 20 to consist of?
- A. Well, my understanding is it's a 21
- 22 specialized company that has advertising

- Q. Okay. Is there anything else you do to
- 9 verify the representativeness of a panel that you
- 10 are assembling for a survey?
- 11 A. Well, the process is very thorough, to
- 12 make sure that they match the target population.
- Q. The process is very thorough for the
- 14 company that you're relying on to assemble the
- 15 panel?
- A. For them and for me. 16
- 17 Q. You say for them and for you.
- 18 What do you mean?
- 19 A. If I'm doing a litigation survey, one of
- 20 the most important aspects is to have a
- 21 representative sample. And so I'm very cautious
- 22 and very thorough in making sure that my sample is

12 (Pages 42 - 45)

Veritext Legal Solutions 800-567-8658 973-410-4098

Page 46 Page 48 1 respondents for a situation like this, when you 1 criticism of Ad Perceptions, and that's not 2 central to my opinions. 2 want to survey advertisers. 3 Q. Okay. Did you do anything yourself to My opinions are more based on what the 4 test the quality of the Advertiser Perceptions 4 sample was, not the process that they went 5 AdPROs panel? 5 through. A. I didn't have the -- I did not do 6 Q. Okay. So your opinion -- it's not your 7 anything specifically, but there wasn't data in 7 opinion that Advertiser Perceptions is an 8 unreliable company. 8 the report for me -- to allow me to do that. Q. But you didn't talk to anyone in 9 A. No. 10 Advertiser Perceptions, for example? 10 Q. And it's not your opinion that 11 Advertiser Perceptions has any methodological A. No, I did not. Q. Did you do any research into 12 problem in assembling the panel of respondents --12 13 Advertiser Perceptions apart from what is in MR. SHEANIN: Objection to form. 13 14 Dr. Simonson's report? 14 BY MS. DEARBORN: 15 A. No, I did not. 15 Q. -- for --A. That's correct. I'm not criticizing Q. Okay. Did you do any investigation 16 17 yourself to ascertain the quality of 17 Ad Perceptions. 18 Advertiser Perceptions' methodology for assembling 18 Q. Okay. Are you aware that Google has 19 relied on Advertiser Perceptions for other 19 a panel? A. No, because it wasn't germane to my 20 surveys? 21 opinion. My opinion was more on the result of 21 A. In that memo they talk about that they've 22 what they did than what was in the report. 22 used them. Yes. Q. Okay. Do you have any reason to question Q. Okay. And did you see the citation to 2 the quality of Advertiser Perceptions' AdPROs 2 other Advertiser Perceptions surveys in 3 panel? 3 Dr. Simonson's report? 4 A. I'm sure I did, but I don't recall. A. Well, there is a cite in my report. If 5 you look at 105 footnote on that page. 5 Q. Okay. Did you review the other surveys 6 that Advertiser Perceptions has done in Q. Yeah. That's one internal Google 7 document? 7 preparation of your report? A. Yes. 8 MR. SHEANIN: Objection to form. 8 9 THE WITNESS: No. As I said, that's not 9 Q. Who gave you that document? The 10 a critical part of my opinion, anything about 10 answer -- question is who? 11 Ad Perceptions. 11 MR. SHEANIN: That's fine. 12 BY MS. DEARBORN: 12 THE WITNESS: It was provided to me by 13 Q. Okay. So you don't think it was 13 Brattle. And I don't know where they got it. 14 inappropriate for Dr. Simonson to rely on 14 BY MS. DEARBORN: 15 Advertiser Perceptions in this case? 15 Q. Did you investigate whether anyone at 16 Google had said positive things about 16 A. No, I do not. 17 Advertiser Perceptions? 17 Q. Okay. Let's go to section III.E in your 18 A. I did not. 18 report, please, which begins on page 62. 19 In paragraph 105, you have a sentence --19 Q. Did you ask for documents in which Google 20 said positive things about Advertiser Perceptions? 20 you begin that paragraph with the phrase "I 21 understand." A. My major -- I was not having a major --22 22 the point of that what not to make a major Do you see that?

13 (Pages 46 - 49)

Page 254 Page 256 Q. So that would have been methodologically 1 to exclude their answers, correct?

- 1
- 2 appropriate but not informing survey respondents
- 3 and giving them the opportunity to opt out?
- A. I would ask that question before. It's a
- 5 different issue. First of all, you want to know
- 6 are they aware of it. And then you want -- if
- 7 they are aware who it was, and they get that
- 8 correct, then you exclude them. Then you ask
- 9 and -- reveal the sponsor of the survey and see if
- 10 they have a problem with it. That's -- so it's a
- 11 different issue.
- 12 Q. I'm sorry. I just want to understand
- 13 your testimony.
- 14 You said, first of all, you want to know
- 15 if they're aware of it. And then, if they are
- 16 aware, who it was. And if they get that correct,
- 17 then you exclude them. Then you ask and reveal
- 18 the sponsor of the survey and see if they have a
- 19 problem with it.

Q. I see.

2

3

4

- 20 Are you saying that, at the end of the
- 21 survey, Dr. Simonson should have first asked

A. I'm saying they're separate issues.

5 research is to ask the -- what do you think the

8 academic research, there is no sponsor, so you

9 ask, what was the purpose of the survey? But if

10 there is a sponsor, then you ask specifically, who

11 was the sponsor of the survey? And then if they

That's independent of the issue do you

12 say, it was Google for their antitrust litigation,

15 reveal -- you could do that and not ever reveal

Q. I see. So I think I understand your

In your view, it would have been

20 appropriate for Dr. Simonson to ask respondents

22 its purpose, and if they answered correctly, then

21 who they thought the sponsor of the survey was and

13 you eliminate their responses.

16 the sponsor.

18 testimony.

17

19

7 questions, who do you -- a lot of times in

A. I'm saying standard practice in survey

6 purpose of the survey was? Or you could ask two

22 respondents to guess the sponsor of the survey and

- 2 A. Yes. Correct.
- Q. And what you take issue with is
- 4 Dr. Simonson's choice to tell respondents the
- 5 sponsor of the survey and its purpose and then
- 6 allow themselves to opt out, right?
- A. I don't take issue with him telling the
- 8 sponsor of the survey. My concern is that it
- 9 eliminates a substantial number of people, and its
- 10 systematic exclusion, and that questions the
- 11 reliability of the sample.
- 12 Q. So you think fewer people would opt out
- 13 if asked to guess about the sponsor of the survey
- 14 and its purpose than would opt out if told?
- 15 MR. SHEANIN: Objection. Form.
- 16 THE WITNESS: Again, they're separate
- 17 issues. I'm wanting to know on their own if they
- 18 answered this. And it could happen to anybody in
- 19 the sample. They could be -- people read the
- 20 New York Times, they read the news, could be
- 21 aware, even in the sample as it stands right now.
- 22 And you just -- I think you need to assess are

Page 255

- 1 then they would be told the sponsor of the survey?
 - 1 people aware of the issues -- who is sponsoring

Page 257

- 2 this survey, and if they are, that could bias
- 3 their responses, so you would want to exclude
- 4 them.
- 5 That's totally separate from the issue
- 6 of, for whatever reason, tell them who the sponsor
- 7 is and decide if they want to opt out of having
- 8 their responses included.
- 9 BY MS. DEARBORN:
- Q. You're aware that survey respondents were
- 11 only told of the survey sponsor and purpose at the
- 12 very end of the survey, right?
- 13 A. That's correct.
- 14 Q. After they had already answered all the
- 15 questions?
- A. That's correct. 16
- 17 Q. And that the back button on their browser
- 18 was disabled such that no answers could be changed
- 19 after the respondents learned the sponsor of the
- 20 survey and its purpose?
- 21 A. Yes.
- 22 Q. How would learning the survey sponsor

65 (Pages 254 - 257)

Page 258 Page 260 1 after completing all of the survey responses 1 aware of research that has found that there is no 2 change the results that respondents gave 2 effect of disclosure of a survey sponsor on the 3 beforehand? 3 results of a survey? A. I'm not saying that at all. I don't take 4 MR. SHEANIN: Objection. Form. 5 issue with them revealing sponsor at the end, and THE WITNESS: I can't cite any specific 6 it does not change their responses. It alters the 6 articles, but that's contextual. It depends how 7 nature of the sample because a significant number 7 charged the questions are. There clearly was an 8 of people opted out. 8 issue here because such a substantial -- a large So it has nothing to do with the 9 number of people opted out, that they were very 10 reliability of their responses prior to that. 10 concerned that Google was the sponsor or they 11 It's simply what happened as a result of that, 11 wouldn't have opted out of the survey. After 12 that revealing. 12 going through all that, answering 39 questions and 13 then deciding to have them excluded, there was a 13 Q. Would you agree that a survey is blind if 14 survey respondents are unaware of the sponsor 14 clear concern from those respondents. 15 while they're answering questions? 15 BY MS. DEARBORN: 16 A. Yes. Q. Have you conducted any experiments to 17 Q. So in that way, Dr. Simonson's survey was 17 determine the effect of disclosure of sponsorship 18 blind, right? 18 on survey responses? 19 19 MR. SHEANIN: Objection. Form. A. I have not. 20 THE WITNESS: It was blind in design. 20 Q. Have you conducted any experiments to 21 Yes. 21 determine the effects of disclosure of a survey's 22 22 purpose on respondents to a survey? Page 259 Page 261 1 BY MS. DEARBORN: A. Generally -- I have not, but that's not a Q. Do you have any reason to believe that 2 2 topic I've seen anybody -- that's not something we 3 survey respondents were aware of the survey 3 do. It's standard practice we do not reveal the 4 sponsor as they answered questions? 4 sponsor or the purpose of the survey. 5 MR. SHEANIN: Objection. Form. 5 Q. Do you have any reason to believe that THE WITNESS: I have no data on that. 6 the individuals who opted out of having their 7 It's possible, but there's no data -- if he had 7 survey responses included in the final results 8 asked that question at the end, we could know. 8 would have answered Dr. Simonson's questions 9 BY MS. DEARBORN: 9 differently from the eventual survey respondents? 10 Q. Are you aware that there is some research 10 MR. SHEANIN: Objection. Form. 11 that has found that identifying the survey 11 THE WITNESS: Well, as I say in my 12 sponsor, even while respondents are answering 12 report, it's not systematic -- I mean, it is 13 questions, has no meaningful effect on survey 13 systematic exclusion if it was random, just people 14 responses? 14 randomly. 15 A. That's -- there could be isolated 15 But specifically, my hypothesis is -- and 16 incidences, but based -- you know, particularly 16 I don't have data to support, other than the 17 Diamond cites this. There can be an instance 17 incidence of opting out was 50 percent higher in 18 where you might reveal it, but the general 18 the high spend advertising survey. And that

66 (Pages 258 - 261)

20 Google getting their answers or knowing what they

21 answered. And particularly if they're heavy users

19 practice -- the most important practice is to have 19 indicates that there's some concern about perhaps

22 standard practice to have a blind survey, are you 22 of Google ad tools, concerning about some --

20 a double blind survey.

Q. Despite the fact that it might be

21

Page 262 Page 264 1 what -- that effect Google -- you know, would 1 A. Yes. 2 Q. Okay. Now, in one of your prior answers, 2 Google come after them, whatever. I don't have hard-core evidence, but 3 you said that survey respondents might be 4 based on those different percentages, that seems 4 concerned that Google would come after them for 5 to be consistent with that view. 5 their responses, right? 6 BY MS. DEARBORN: 6 A. I may not have used those exact words, 7 but something to that effect. Q. Okay. You don't have hard -- you said Q. Okay. You're aware that the survey 8 you don't have hard-core evidence. A. I don't have actual data on those 9 respondents' identities were kept confidential, 10 respondents. 10 right? 11 A. Yes. 11 Q. Okay. You don't have data that would 12 12 suggest that people who answered -- strike that. Q. So what's your basis for thinking that 13 You don't have data that would suggest 13 Google could retaliate against survey respondents 14 in the way that you suggest? 14 that people who opted out of having their survey 15 responses included in the final results would have 15 A. I'm not saying Google would. And you're 16 answered differently --16 right, they don't know who -- but why were they 17 concerned? You have a group -- the hard-core 17 A. Yeah. 18 Q. -- from the eventual survey population, 18 evidence is you have a significant percentage of 19 right? 19 people who, when they found out Google was the 20 MR. SHEANIN: Objection. Form. 20 sponsor and it related to the antitrust 21 THE WITNESS: Yeah, I do not because 21 litigation, they wanted out, even after taking the 22 Simonson does not provide -- I assume he destroyed 22 time to fill out the questionnaire. Page 263 Page 265 1 that data and does not have that data, because 1 There has to be a reason. It's not 2 random. 2 they asked to have it excluded. 3 BY MS. DEARBORN: Q. You say there has to be a reason. But 4 Q. You say you assume that he destroyed that 4 you didn't test it, because you couldn't, right? A. Right. I couldn't. 5 data. 5 6 Do you know one way or the other? 6 Q. Right. 7 A. I don't, but he should have. A. There's no data. There's no open-ended Q. Okay. Once survey respondents opted out 8 responses, why did you opt out? 9 of having their survey responses included in the 9 Q. But you didn't, for example, conduct a 10 final results, it was appropriate for Dr. Simonson 10 survey where you did not give survey respondents 11 not to look at those responses any further, right? 11 the ability to opt out and see whether the results 12 A. Absolutely. 12 would be any different. 13 13 Q. And it was appropriate for him not to MR. SHEANIN: Objection. Form. 14 include them in his final report, right? 14 THE WITNESS: No. As I said, I've not 15 15 done any other surveys. A. Absolutely. Q. Because doing otherwise would have broken 16 BY MS. DEARBORN: 16 17 a promise. 17 Q. Okay. How would a respondent to these 18 A. Absolutely. 18 surveys know whether the answers were good for 19 Q. Okay. Now, you said that the number of 19 Google or bad for Google? 20 individuals who opted out in the higher spend 20 A. I can't speculate, but all I can say is

67 (Pages 262 - 265)

21 they had some reason to opt out of that survey.

Q. Well, you do speculate in your report in

22

22 Is that the case?

21 survey was higher than in the lower spend survey.

Page 266 Page 268 1 thinking. I can only speculate. But there 1 paragraph 83, don't you? 2 MR. SHEANIN: Objection. Form. 2 clearly was a reason. 3 BY MS. DEARBORN: 3 THE WITNESS: Yeah, we just said this a Q. But again, you haven't tested what that 4 minute ago. 5 BY MS. DEARBORN: 5 reason might be? 6 MR. SHEANIN: Objection. Form. Q. Right. You say, "It is entirely possible 7 that respondents who chose to have their responses 7 THE WITNESS: No, I have not. 8 BY MS. DEARBORN: 8 excluded did not want Google to have access to 9 9 their responses despite being told at the Q. Okay. We took a little bit of a detour 10 beginning that their responses would be 10 away from the no-contact list, so let's go back to 11 anonymous." 11 Exhibit [sic] I, please. 12 12 A. Okay. That's what you wrote, right? Q. I'd like you to assume with me for a 13 A. Yes. 13 14 Q. And you're just speculating as to why 14 moment that Dr. Simonson could not conduct a 15 survey that contacted the individuals in 15 respondents might have opted out, right? 16 MR. SHEANIN: Objection. Form. 16 appendix I. Just posit that. 17 THE WITNESS: Yes. Because it's 17 A. Okay. Q. That he had a valid reason for doing 18 systematic. It's not random -- a random response. 18 19 that. 19 They were specifically told something. And for a 20 20 significant number of people, they decided to A. Okay. 21 behave in a certain way, a consistent manner. So 21 Q. Is it your opinion that it is impossible 22 there has to be some reason for it. 22 to conduct a reliable survey of advertisers while Page 267 Page 269 1 Whether my reason is correct or not is 1 also excluding the entities in appendix I? 2 2 not the issue. The issue is there was a concern MR. SHEANIN: Objection. Form. 3 that -- when they found out that Google had 3 THE WITNESS: Of this magnitude, yes. 4 sponsored the survey. 4 BY MS. DEARBORN: 5 BY MS. DEARBORN: Q. So you think no survey could have been 5 Q. But the reasons for opting out in 6 done in this case that would have been 7 paragraph 83, that's just your speculation, 7 methodologically sound if it was required that the 8 correct? 8 entities in appendix I be excluded? 9 MR. SHEANIN: Objection. Form. 9 MR. SHEANIN: Objection. Form. 10 THE WITNESS: If -- under that 10 THE WITNESS: Yes. 11 BY MS. DEARBORN: 11 assumption. But as I said before, it would be Q. Why would a respondent think that their 12 possible. You take one example, Walt Disney 13 answers would harm Google in a survey that Google 13 Company. How many thousands of people work for 14 sponsored --14 Walt Disney Company? Is every single person in 15 15 that company aware of these issues? MR. SHEANIN: Objection. 16 BY MS. DEARBORN: I still think you could -- I think it was 16 17 Q. -- as you suggest here in paragraph 83? 17 a bad decision to exclude all these companies. 18 MR. SHEANIN: Objection. Form. 18 And -- but what you would do is ask the questions 19 THE WITNESS: Again, as you said, I'm 19 about "do you know who the sponsor of this survey 20 speculating, but perhaps they are users of Google 20 is" at the end. And if they're not, then it's 21 tools, Google Ads, and that Google might charge 21 fine to have them in the survey. 22 them a higher -- I don't know what they were 22

68 (Pages 266 - 269)

Page 270 Page 272 1 BY MS. DEARBORN: Q. All right. Well, you understand Q. Okay. I think that there's two separate 2 Dr. Simonson was surveying advertisers, right? 3 things going on here. Right? One is the A. Yes. 4 informed -- the fact that Dr. Simonson informed 4 Q. You understand that Dr. Simonson was not 5 respondents at the end of the survey as to its 5 conducting a survey of website publishers, right? 6 sponsor and its purpose? 6 A. That's correct. A. That's a different -- totally different Q. Does appendix I include website 8 issue. 8 publishers? 9 Q. Right. So I'm asking a much more narrow 9 A. I don't remember, to be honest. 10 question, which is, do you think no survey could 10 Yes. Q. And you understand that Dr. Simonson was 11 have been done in this case --11 12 A. The --12 not conducting a survey of ad tech providers, 13 Q. -- if it excluded the entities on 13 right? 14 A. Yes. 14 appendix I? 15 A. If you excluded them, yes, you could not 15 Q. Does appendix I include ad tech 16 get a representative sample. But I'm saying 16 providers? 17 that -- is it impossible to do a survey? You 17 A. I don't remember specifically. 18 could, under the conditions I mentioned. 18 Q. If you need to refresh your recollection, Q. Okay. So -- but in your example, you 19 19 you can look at page 1. 20 would contact all of these individuals in 20 A. Page 1 of? 21 appendix I. You would just then ask them to guess 21 Q. Of appendix I. 22 about the survey's respondents or --22 A. Okay. And your question is? Page 271 Page 273 1 A. Well, I wouldn't contact all of them. I Q. Does appendix I, the no-contact list, 1 2 would have a representative sample that included 2 include ad tech providers? 3 these, possibly. 3 A. Yes, it does. Q. Okay. And it was not erroneous for 4 Q. I see. Again, in your view, it was 4 5 impossible to do a survey in this case if 5 Dr. Simonson to exclude publishers or ad tech 6 Dr. Simonson couldn't --6 providers from his survey population, right? 7 A. Yes. 7 MR. SHEANIN: Objection. Form. 8 Q. -- contact the individuals in appendix I. 8 THE WITNESS: No, it was not. 9 A. Yes. 9 BY MS. DEARBORN: 10 Q. Okay. Now, one of the excluded companies 10 Q. Right. Because he was surveying 11 in appendix I is Google's parent company, 11 advertisers --12 Alphabet, right? A. Right. 12 A. Yes. 13 13 Q. -- right? 14 Q. You point this out in your report. 14 So he didn't exclude 580 companies from 15 15 his survey population, did he? A. Yes. Q. Are you saying Google should have A. I would have to go back and see how those 16 16 17 surveyed its own parent company? 17 numbers were calculated. But the key issue is not 18 A. No, I'm not saying that. But I'm saying 18 so much the number as the amount of revenue and 19 eliminating 580 companies is not necessary. 19 the amount of advertising that is done on ad tools 20 Q. Okay. Well, he didn't really eliminate 20 by the companies that -- by companies that were 21 580 companies, did he, Dr. Hoyer? 21 excluded. 22 A. That was my understanding, it was 580. 22 Q. Okay. How many advertisers did

69 (Pages 270 - 273)

Page 274 Page 276 1 Dr. Simonson exclude because they're listed in 1 other number. 2 2 appendix I? And, you know, if you look at that 3 A. I believe there was 580. I'd have to go 3 paragraph where that is quoted, there's a lot 4 back and check the numbers. 4 of -- you know, it really adds to the Q. Well, 580 includes ad tech providers and 5 unrepresentativeness of the sample. 6 publishers, though, right? Q. Have you done any analysis as to whether A. I'm not sure. I don't remember. There 7 the results of Dr. Simonson's surveys would change 8 are, like, 580 in this table. 8 if the excluded companies in appendix I were, in Q. Where did that number, 580, in your 9 fact, included in the survey population? 10 report --10 A. I have not done that. A. I asked --11 11 Q. Do you have a basis one way or the other 12 Q. -- come from? 12 to opine as to the direction in which inclusion of 13 A. -- Brattle to calculate that for me. 13 those individuals in the survey population would 14 Q. And what instructions did you give 14 have impacted the results? 15 Brattle to come up with the number 580? 15 MR. SHEANIN: Objection. Form. 16 A. To find out that -- the number of 16 Foundation. 17 17 advertising companies that were excluded. THE WITNESS: Showing that your sample is Q. So you think 580 is the number of 18 representative is his responsibility, not mine. 19 advertising companies that were excluded from the 19 He should have shown that there were no 20 differences or that that is a valid sample. 20 survey? 21 21 A. As I said, I'd have to go back and check. He has provided, as far as I can see, no 22 Q. Okay. If it's significantly smaller than 22 evidence that his sample is representative of the Page 275 Page 277 1 580, would that surprise you? 1 population. 2 MR. SHEANIN: Objection to form. 2 BY MS. DEARBORN: 3 THE WITNESS: It would surprise me. But Q. Okay. Now, in previous surveys that you 4 again, the key issue is the amount of spending 4 have conducted, you have excluded certain members 5 that occurred. It's still a very significant 5 of populations because you weren't able to contact 6 number that were excluded. And the amount of 6 them for one reason or another, right? 7 revenue that -- Google's own revenue that comes 7 A. Yes. 8 from those companies is substantial. Q. Right. So in the credit union case that 9 BY MS. DEARBORN: 9 you just mentioned, you excluded any respondents 10 who were a current member of the credit union, Q. Okay. If the number 580 includes all of 11 the entities here in Exhibit I -- or, sorry, in 11 right? 12 appendix I and is not advertisers, do you want to 12 A. Yes. 13 revise your report? 13 MR. SHEANIN: Objection. Form. 14 A. It doesn't change my opinion. 14 BY MS. DEARBORN: 15 Q. Would you like to revise that number in Q. Did you think the exclusion of members of 15 16 the credit union created a bias in your survey? 16 your report? 17 A. If -- given the opportunity, yes. 17 A. The population we were representing or 18 Q. Okay. 18 trying to generalize to were potential credit 19 19 union members. And so that's what we had. We had A. But still the key conclusion is, for 20 example, 9 of the top 15 whales, which are the 20 a sample, representative sample, of credit union

70 (Pages 274 - 277)

22

21 members.

Q. Got it.

21 largest ad spenders on Google Ads, were excluded.

22 That's significant, independent of 580 or any

Page 278 Page 280 1 MR. SHEANIN: And can I just say -- I 1 A. Do you have the reference for it so I 2 can --2 just, again, want to caution you not to go into 3 3 anything that would revel confidential information Q. I don't, unfortunately. 4 in that matter. 4 It's a -- well, I have a study that you 5 MS. DEARBORN: To set Dr. Hoyer's mind at 5 published in the Journal of the Academy 6 of Marketing Science. 6 ease, the report is publicly available. 7 MR. SHEANIN: Okay. 7 A. Okay. 8 Q. Does that jog your memory? MS. DEARBORN: So I don't think there's 8 9 A. No. I have had about 15 articles, or --9 confidentiality concern here. 10 10 BY MS. DEARBORN: Q. Okay. I'll ask it more generally. 11 When you conduct surveys, as a general 11 Q. But of course I'm not asking you to 12 matter, it's usually appropriate to exclude 12 violate your -- any confidentiality obligations 13 that you're under, but I'm asking questions to 13 minors, right? 14 A. Yes. 14 which I believe the answers are public knowledge. 15 A. Well, there was a reason for that, and 15 Q. And -- but minors make purchasing 16 the reason was we were testing a language of 16 decisions, right? 17 A. Yes. 17 Vistar's agreement that, when people signed up for 18 Q. Does the exclusion of minors from survey 18 an account, they had to read that and understand 19 populations make the surveys any less reliable? 19 the terms of that account. And people who are 20 A. It depends on what type of survey you're 20 already members have already seen that account, 21 and that doesn't give an indication of how well 21 talking about. If it's an academic study, we 22 new members would understand that language. 22 aren't as concerned about representative [sic] of Page 279 Page 281 1 MR. SHEANIN: Okay. 1 the sample. If it's a litigation survey where 2 THE WITNESS: So that's how we... 2 you're trying to draw specific conclusions about a 3 MR. SHEANIN: I'd remind you to only 3 population, and they are a significant buyer, then 4 respond to questions that were actually on the 4 it is a problem. 5 table and posed to you, and I don't believe there Q. Now, Dr. Simonson concludes that, to the 6 was one posed to you at that point. 6 extent the companies that he excluded, because 7 MS. DEARBORN: And I would request that 7 they appeared on the no-contact list, are, on 8 counsel not coach the witness. 8 average, more sophisticated advertisers, then his 9 BY MS. DEARBORN: 9 results would likely to be conservative on key 10 topics such as multi-homing and substitution. Q. Okay. You've conducted surveys of 11 purchasers of MP3s. 11 Do you have any reason to doubt that 12 Do you recall that? 12 conclusion? 13 A. Yes. 13 A. Yes. He provides no evidence of that. 14 Q. And when you conducted a survey of 14 Why would they be -- why would it be more 15 consumers who purchased MP3s, you excluded from 15 conservative? I don't understand that comment. 16 your survey population any individuals under the 16 Q. Did you review the bases for 17 age of 18, right? 17 Dr. Simonson's statement? A. Which study are you referring to? I 18 18 A. I did, but I don't remember the 19 remember vaguely, but I don't have a detailed 19 specifics. 20 memory of that. 20 Q. Did you disagree with him when you Q. It's a 2020 study that you did on MP3 21 reviewed that paragraph in his report? 22 MR. SHEANIN: Objection. Form. 22 purchasing.

71 (Pages 278 - 281)

Page 284 Page 282 1 THE WITNESS: To be perfectly honest, Q. But you did not specifically disagree 2 that's a phrase that academics use all the time to 2 with Dr. Simonson's conclusion that exclusion of 3 try to get them out of difficult situations 3 the companies on the no-contact list may have 4 that -- it's not necessarily a valid statement, to 4 rendered his survey results conservative, rights? 5 be quite honest. 5 MR. SHEANIN: Objection. 6 BY MS. DEARBORN: 6 BY MS. DEARBORN: Q. Which phrase, the fact that --Q. That's not something that you said in A. Likely to be conservative. 8 your report? 8 Q. It's not a phrase you've ever used 9 MR. SHEANIN: Objection to form. 10 before, Dr. Hoyer? 10 THE WITNESS: I didn't say it in my A. Oh, I've used it. We all use it. But 11 report. But since you're asking me, I don't -- I 12 that doesn't mean it's right. 12 can't accept that comment at face value. Q. But still, you have no basis to disagree 13 BY MS. DEARBORN: 14 with that conclusion in his report, despite the Q. All right. Let's look at paragraph 69 of 15 fact that you question the use of the word 15 your report, please. 16 "conservative," right? 16 All right. And in this paragraph you 17 MR. SHEANIN: Objection. Form. 17 criticize Dr. Simonson because you say he has no 18 THE WITNESS: He doesn't provide detailed 18 way to ascertain whether two, five, ten, or more 19 reasons of why it would be conservative, and I --19 respondents in his final sample work for the same 20 I would have to be convinced of his reasoning 20 company, right? 21 21 before I would accept that statement. A. Yes. 22 22 Q. That's because, theoretically, people Page 283 Page 285 1 BY MS. DEARBORN: 1 from different business units in the same company Q. Well, part of your assignment was to 2 could answer the survey? 3 review and respond to Dr. Simonson's report, 3 MR. SHEANIN: Objection. Form. 4 THE WITNESS: Or from the same business 4 right? A. Yes. 5 5 unit even. Q. And disagreeing with his statement that 6 BY MS. DEARBORN: 7 exclusion of individuals on the no-contact list is 7 Q. Did you look at the data that 8 not a criticism -- strike that. 8 Dr. Simonson provided to determine how many His conclusion that exclusion of the 9 individuals from the same company answered the 10 survey? 10 companies on the no-contact list was likely to 11 make the results of his survey conservative is not 11 MR. SHEANIN: Objection. Form. 12 a conclusion that you challenge in your report, 12 Foundation. 13 THE WITNESS: I don't recall. I don't 13 correct? A. I challenge that the sample is 14 remember seeing that. 15 unrepresentative, and we don't know how that 15 BY MS. DEARBORN: Q. Is that something you looked into? 16 affected the survey. 16 17 But the issue -- it's not a valued [sic] 17 MR. SHEANIN: Objection. Form. 18 support because the purpose of a survey should be 18 Foundation. 19 19 to be able to draw valid conclusions on a THE WITNESS: I was just basing it on his 20 representative sample. And anything less than 20 report that he didn't mention that there was any 21 that calls into question the reliability and 21 effort to only have single individuals from each

72 (Pages 282 - 285)

22 company. I didn't see his description of that.

22 usefulness of the survey.

Page 286 Page 288 1 BY MS. DEARBORN: 1 THE WITNESS: As I said, this is not a Q. And you had survey responses in raw data 2 key burning issue that leads to my major -- my 3 form provided by Dr. Simonson, right? 3 central conclusions. A. Yes. 4 BY MS. DEARBORN: 5 Q. Did you look to see how many survey 5 Q. Okay. But you agree that, in your 6 respondents were from the same company? 6 example of Axe and Dove, it would have been MR. SHEANIN: Objection. Form. 7 appropriate for Dr. Simonson to include two 8 Foundation. 8 members of the Unilever company, correct? THE WITNESS: I did not. This was not a A. In that specific context, yes. 10 burning issue. I spent more time on more critical 10 MR. SHEANIN: We've been going for about 11 issues. 11 an hour. Would you like a break? 12 BY MS. DEARBORN: 12 THE WITNESS: We could. Yeah, I'm fine. Q. Okay. So this isn't, standing alone, a 13 MS. DEARBORN: I'm fine with that. 14 reason why you think Dr. Simonson's report is 14 MR. SHEANIN: Okay. Let's take a break. 15 unreliable? 15 VIDEO TECHNICIAN: We're now off the MR. SHEANIN: Objection. Form. 16 16 record at 1:58 p.m. 17 Foundation. 17 (A recess was taken.) 18 THE WITNESS: Correct. 18 VIDEO TECHNICIAN: We're now back on the 19 BY MS. DEARBORN: 19 record at 12 -- I'm sorry, 2:12 p.m. Q. Okay. And you -- we've talked at length 20 You may proceed. 21 about how Dr. Simonson's report or his survey 21 Y MS. DEARBORN: 22 asked respondents in the instructions to answer on 22 Q. Welcome back, Dr. Hoyer. I understand Page 287 Page 289 1 behalf of their business unit, right? 1 from your counsel that you'd like to correct or 2 2 clarify one of your prior answers. A. Yes. A. Yes. 3 Q. And we talked about how Axe and Dove may 3 4 4 have different marketing objectives? Q. Please feel free to do that. A. Yes. 5 A. Yes. I accidentally misspoke when I 5 6 mentioned that there was a high -- it's on Q. So wouldn't it have been appropriate for 7 Dr. Simonson to survey both a member of the Axe 7 paragraph 84 of my report. I misspoke. What -- I meant to say 8 business unit and a member of the Dove business 9 there's a higher percentage -- 50 percent higher 9 unit? 10 10 percentage of response in the lower end [sic] MR. SHEANIN: Objection. Form. 11 THE WITNESS: If they were in separate 11 survey that opted out versus the high end survey. 12 I believe I accidentally reversed that, and -- it 12 units, but there's no data to indicate that that 13 occurred, that he -- I mean, he would have had to 13 was just a mistake. Q. We're all human. 14 ask a question of, if it wasn't the same company, 14 15 was it a different unit? And I didn't see any 15 A. Right. 16 data in that regard. 16 Q. We misspeak sometimes. Right? 17 BY MS. DEARBORN: 17 A. After speaking for hours, it -- right. Q. You didn't see data in that regard, but 18 Q. Yep. Thank you for the clarification. 19 A. Yeah. 19 you didn't look, right? We just talked about 20 Q. And understood. 20 that. 21 21 I try not to jump around too much, but I MR. SHEANIN: Objection. Form. 22 do just have a few clarifying questions about 22 Foundation.

73 (Pages 286 - 289)

973-410-4098

Veritext Legal Solutions 800-567-8658

Page 290

- 1 topics that we addressed prior to the break, so I
- 2 hope you'll forgive me --
- 3 A. Sure.
- 4 Q. -- and if you at any point need to
- 5 clarify my question, please ask. Okay?
- 6 A. Okay.
- 7 Q. Okay. At some point we discussed
- 8 Dr. Simonson's disclosure at the end of the survey
- 9 of the survey's sponsor and purpose, right?
- 10 A. Yes.
- 11 Q. And you said that it's fairly common to
- 12 ask respondents to guess at the end of a survey
- 13 about the survey sponsor and then exclude them if
- 14 they guess correctly, right?
- 15 A. Well, could I clar- --
- 16 Q. Of course.
- 17 A. We don't ask them, could you guess? What
- 18 do you think? Not guess on it. We don't
- 19 encourage them to come up with any random answer,
- 20 but rather, what do you think the purpose of this
- 21 survey was? Or, who was the sponsor of the
- 22 survey?

Page 291

- 1 Q. Right. And if they answer correctly to
- 2 that question at the end of the survey, then you
- 3 exclude their results --
- 4 A. Yes.
- 5 Q. -- right?
- 6 Do I understand you correctly that the
- 7 reason you do that is because survey respondents
- 8 who answer that question correctly would have had
- 9 in their mind the survey sponsor while they were
- 10 answering questions?
- 11 A. Yes. They -- that is the major concern.
- 12 It's also a major concern in academic studies
- 13 because it's like a game. A lot of times it's
- 14 college students or even -- we use panels as well.
- 15 People are trying to guess what the purpose of the
- 16 survey is. And it does alter the -- we have
- 17 demand characteristics if people are concerned
- 18 about who the sponsor -- you know, what they -- I
- 19 want to be a good subject, I want to look good,
- 20 and so I might alter my responses based on that.
- Q. Okay. So what you're concerned about is
- 22 the -- what survey respondents have in their mind

- 1 as they're answering the questions, right?
- 2 A. Yes.
- 3 Q. You're not concerned about excluding a
- 4 population of survey respondents at the end of the
- 5 study simply because they correctly identified the
- 6 survey sponsor.
- 7 MR. SHEANIN: Objection. Form.
- 8 THE WITNESS: Well, you would be -- what
- 9 we would have to do -- in surveys I've done, if
- 10 there is -- if there are people -- it's usually
- 11 not a big problem, but if it is a problem, you've
- 12 got to make sure the final sample is
- 13 representative, so you must go back and get
- 14 respondents to fit that category of what you set
- 15 out as your sample to reflect the population.
- 16 BY MS. DEARBORN:
- 17 Q. Okay. But here, you have no reason to
- 18 believe that respondents knew, while they were
- 19 answering questions, that Google sponsored the
- 20 survey, right?
- 21 MR. SHEANIN: Objection. Form.
- THE WITNESS: We don't know, but it's

Page 293

Page 292

- 1 possible. But there's no -- he didn't ask that
- 2 question, so there's no way to determine that.
- 3 BY MS. DEARBORN:
- 4 Q. Okay. My question is a little different.
- 5 You have no reason to believe that
- 6 respondents knew, while they were answering
- 7 questions, that Google sponsored the survey,
- 8 correct?
- 9 MR. SHEANIN: Objection to form. Asked
- 10 and answered.
- 11 THE WITNESS: Yeah, I don't have any data
- 12 to know whether they did or not.
- 13 BY MS. DEARBORN:
- 14 Q. Okay. And nothing about the way that the
- 15 survey was designed would suggest to survey
- 16 respondents who sponsored the survey, right?
- 17 MR. SHEANIN: Objection. Form.
- 18 THE WITNESS: Not that I could see.
- 19 BY MS. DEARBORN:
- 20 Q. That's not one of your criticisms --
- 21 A. No.
- 22 Q. -- of Dr. Simonson's study, right?

74 (Pages 290 - 293)

Veritext Legal Solutions 973-410-4098

Page 294 Page 296 1 MR. SHEANIN: Objection. Form. 1 BY MS. DEARBORN: 2 THE WITNESS: No, it is not one of my 2 Q. It's actually more than 150 companies 3 criticisms. 3 that spent more than \$30 million in advertising in 4 BY MS. DEARBORN: 4 the last 12 months? Q. Okay. All right. We also talked about 5 A. I believe that's correct. 5 6 the excluded list of companies in appendix I, or Q. So you'd agree that Dr. Simonson's higher 7 what I would call the no-contact list, right? 7 spend advertiser survey included some very large A. Yes. 8 companies, right? 8 9 9 MR. SHEANIN: Objection. Form. Q. And one of your concerns is that the 10 no-contact lists include some very large 10 THE WITNESS: My criticism is not that he 11 included some. If you looked at the distribution 11 companies, like members of the Fortune 100, right? 12 A. Yes. 12 of the actual spending of the entire population, Q. It is the case that Dr. Simonson's higher 13 my guess, the right end would be significantly 13 14 higher and it would not look like this bell curve. 14 spend advertiser survey also included some very 15 large companies, right? 15 It would look much -- particularly if you look at 16 A. They include some. Yes. 16 amount spent. 17 17 Q. Right. And he reproduced that in So I'd say this end of -- the right end 18 Exhibit 6 to his report? 18 of this distribution is underrepresented. 19 A. I don't recall the specific exhibit. 19 BY MS. DEARBORN: 20 Q. You're welcome to look at it if you need 20 Q. So you indicated in your answer that 21 to, but --21 that's your guess, right? 22 A. Is that in the report? 22 A. Well, I know that they've excluded a Page 295 Page 297 1 Q. Yes. Exhibit 6 to his report. 1 significant amount of revenue -- companies that 2 A. Okay. 2 account for -- like I said, 9 of the top 15 whales 3 Q. And this reproduces the answer to this 3 of Google's revenue are excluded. 4 QS10, the screener question 10, which asks, Q. But your view that this distribution is 5 Approximately how much did your company spend in 5 skewed, that's based on a guess, right? 6 the last 12 months on all advertising, including 6 MR. SHEANIN: Objection. Form. 7 all digital types? 7 Misstates testimony. 8 A. Uh-huh. THE WITNESS: I haven't had -- worked out 9 Q. Right? 9 numbers on that. 10 BY MS. DEARBORN: 10 11 Q. And this reflects the eventual population 11 Q. Right. You didn't conduct a study of the 12 of Dr. Simonson's survey? 12 overall distribution of advertising spend in U.S. 13 A. I believe that's correct. 13 companies, correct? 14 Q. And there are a number of companies A. Well, I have some data in my report about 14 15 towards the right end of this graph -- that's a 15 the amount spent by companies that were excluded. 16 terrible question. 16 I forget what paragraph it's in, but --17 There's over a hundred companies that 17 Q. Right. We looked at that before. That's 18 spent more than \$30 million on advertising in the 18 the --19 last 12 months, correct? 19 A. Right. 20 A. I would assume so, yes. 20 Q. -- companies -- the amount companies 21 MR. SHEANIN: I -- okay. 21 spent with Google, right? 22 22 A. Right.

75 (Pages 294 - 297)

Page 298 Page 300 1 Q. So you haven't done a study that looks at 1 BY MS. DEARBORN: 2 the distribution of advertising spend across all Q. Okay. I understand you have things that 3 companies in the United States, correct? 3 you want to say, and I understand the criticisms MR. SHEANIN: Objection. Form. 4 in your report. I really need to ask my questions 5 THE WITNESS: Could you restate that 5 and get an answer to my question, Dr. Hoyer. And 6 question? 6 I know you're not trying to be disrespectful, but 7 BY MS. DEARBORN: 7 I do need an answer to my question. All right? Q. I'm not sure I can, but I'll say it 8 MR. SHEANIN: Counsel, he's answering 9 again. 9 your questions. You ask him your questions and 10 You haven't done a study that evaluates 10 he's giving you answer. 11 the distribution of advertising spend across all 11 MS. DEARBORN: That's --12 companies in the United States, right? 12 MR. SHEANIN: That's what you're entitled 13 A. No, I have not done that study. 13 to in a deposition. 14 Q. Okay. So you have no basis to say that MS. DEARBORN: I have asked my question, 14 15 the distribution in the higher spend advertising 15 to which he has given nonresponsive answers, and 16 study that Dr. Simonson conducted is different 16 so I'm going to ask my question again. And I will 17 from the distribution of advertising spend across 17 get an answer to my question because I think the 18 companies in the United States, right? 18 answer to this one is fairly simple. 19 MR. SHEANIN: Objection. Form. 19 BY MS. DEARBORN: 20 THE WITNESS: Based on the data in my 20 Q. Dr. Hoyer, you have not done a study that 21 report, I would be very -- find it very hard to 21 evaluates the distribution of advertising spend 22 believe that his sample is representative of the 22 amongst companies in the United States, correct? Page 299 Page 301 1 types of -- the spending companies -- the 1 MR. SHEANIN: Objection. Form. Asked 2 companies in the population. 2 and answered. 3 BY MS. DEARBORN: 3 THE WITNESS: Do I -- I'm not sure --Q. You say it's hard to believe, but you 4 MR. SHEANIN: You can answer the 5 haven't done an analysis of that. 5 question. A. It's formally hard to believe that --6 MS. DEARBORN: Do not coach the witness. 7 just based on my analysis and these numbers, it 7 MR. SHEANIN: I --8 would be -- I strongly suspect that the sample is 8 BY MS. DEARBORN: 9 unrepresentative. 9 Q. Please answer the question. 10 Q. Okay. You said that you strongly 10 A. I have not done a formal study, but there 11 suspect. 11 is strong evidence. 12 You have not done a study to determine 12 Q. And the strong evidence that you're 13 whether or not the sample that Dr. Simonson 13 citing, that's the material in your report that 14 evaluated in his survey was, in fact, 14 we've discussed previously, looking at the amount 15 unrepresentative of the United States advertiser 15 of --16 population, correct? A. Yeah. 16 17 MR. SHEANIN: Objection. Form. 17 Q. -- that advertisers spent with Google? 18 THE WITNESS: Again, I still maintain, 18 A. Yes. 19 based on the numbers I present in my report, that 19 Q. But you have -- that's spent -- okay. 20 he has excluded very significant advertisers that 20 Strike that. 21 account for a major portion of Google's business, 21 All right. I'd like to turn to another 22 and that produces an unrepresentative sample. 22 of your criticisms of Dr. Simonson's report and

76 (Pages 298 - 301)

Page 326 Page 328 1 always games that subjects play. It's -- the key 1 question that question as being vague. 2 is whether it's systematic demand characteristics. 2 MS. DEARBORN: Okay. Let's look at --3 BY MS. DEARBORN: 3 let's do tab 30, please, Anita. Let's mark -- I Q. Right. So you would agree that some 4 believe we're up to Exhibit 5. 5 demand characteristics effect is minor? 5 (Hover Deposition Exhibit 5 marked for MR. SHEANIN: Objection. Form. 6 6 identification and attached to the 7 THE WITNESS: The key issue is whether it transcript.) 8 systematically influences results in a certain 8 BY MS. DEARBORN: 9 way. And particularly, does it influence results Q. Okay. We've marked as Hoyer Exhibit 5 an 10 towards the hypothesis of the researcher? 10 article titled, "Service brand relationship 11 BY MS. DEARBORN: 11 quality: Hot or cold?" 12 12 Q. Have you done any empirical analysis to Do you recognize this document, 13 Dr. Hoyer? 13 determine whether demand effects influenced 14 Dr. Simonson's study in a systematic way? 14 A. Yes. 15 MR. SHEANIN: Objection. Form. 15 Q. What is it? 16 THE WITNESS: Yeah, I am not -- I did not 16 A. Yes. 17 have the time to do a study of that nature. It 17 O. What is it? 18 was not part of my assignment. 18 A. It's an article I wrote with my Swiss 19 BY MS. DEARBORN: 19 colleagues looking at -- it was mainly focused on Q. Would you agree that there's no such 20 brand relationship quality. 21 thing as a perfect survey? 21 Q. Do you stand by the results of this 22 paper? 22 A. I would agree with that. But some Page 327 Page 329 1 surveys are much more flawed than others. 1 2 Q. Have you ever asked survey respondents Q. Do you think the methodology you employed 3 questions about what they would do in a response 3 was reliable --4 to a price increase without specifying the amount A. As far as --4 5 of that increase? 5 Q. -- in conducting a survey? A. I don't do pricing research, so no, I 6 A. As far as I can recall, yes. 7 have not. 7 Q. Just because I'm watching the transcript Q. Have you ever seen that asked? 8 here, please let me finish my question before you 9 MR. SHEANIN: Objection. Form. 9 start your answer. Our transcript is going to be 10 a mess otherwise. 10 THE WITNESS: Most typically -- again, 11 I've seen many studies. Studies that I can recall 11 MR. SHEANIN: Yeah, if every one would 12 seeing do specify an amount, like dollar amount or 12 take a moment so that you could finish the 13 percentage increase. 13 question, I can finish an objection and you can 14 BY MS. DEARBORN: 14 get a good answer --15 Q. Have you ever seen a survey done that THE WITNESS: Guilty, sorry. 16 asks respondents what they would do in response to MR. SHEANIN: I promise that our court 16 17 a price increase without specifying the dollar 17 reporter would be appreciative. 18 amount or specific amount of the increase? 18 BY MS. DEARBORN: 19 MR. SHEANIN: Objection. Form. Asked 19 Q. Okay. So just to ask my question again, 20 and answered. 20 you stand by the methodology that you employed in 21 THE WITNESS: Not that I can recall. And 21 conducting this study, correct? 22 if I were a reviewer of a study, I would highly 22 A. Yes.

83 (Pages 326 - 329)

Page 330 Page 332 Q. All right. So this study involved a 1 But no, we did not change that question 2 survey, right? 2 based on the previous scale. 3 A. Yes. Q. And the previous scale, that's not a 4 Q. It involved a survey of consumers, 4 dollar figure scale, right? That's, like, a 5 correct? 5 sliding scale from 1 to whatever, indicating the 6 A. As far as I remember, yes. 6 extent to which the respondent agreed with that 7 Q. And the survey questions are reproduced 7 phrase? 8 in appendix A, right? 8 MR. SHEANIN: Objection. Form. 9 9 A. Yes. THE WITNESS: I don't remember if it was 10 Q. And the only difference between the 10 a sliding scale. 11 survey questions reproduced in appendix A and 11 BY MS. DEARBORN: 12 those you actually gave to survey respondents is 12 Q. Okay. 13 that you actually substituted a brand in response 13 A. It's been ten years. I --14 to the Xs in this table, right? 14 Q. Well, you said the previous scale cited A. I believe so. This was done ten years 15 15 there, so I'm just trying to understand what that 16 ago, but yes, I think so. 16 previous scale is. 17 Q. Right. So, here, X was a brand of 17 A. The Netemeyer, et al., 2004 scale. 18 airline? Q. And what is that scale? Can you describe 18 19 A. Yes. 19 it for me? 20 Q. But otherwise, these were verbatim the 20 A. Well, it's these two -- it's a scale to 21 questions that you gave to survey respondents, 21 measure willingness to pay. 22 right? 22 Q. But how is -- what are the actual values Page 331 Page 333 A. Technically, yes. It's an English 1 on that scale? 1 2 translation. It was Swiss -- it was in German. 2 A. I don't remember. 3 Q. But you think this was accurately Q. Is it a specific dollar amount? 4 translated, correct? A. I can't remember, to be honest. It's ten 4 A. Yes. 5 5 years ago. Q. Okay. So I'd like to focus your Q. Just based -- looking at the language of 7 attention midway down the page. There are two 7 this question --8 questions underneath the header "Willingness to A. I mean, it might be -- I could take time 9 pay a price premium." 9 to read the article, to go back and see what all 10 Do you see that? 10 the scales were, but I don't remember off the top 11 11 of my head. A. Yes. 12 Q. And one of the questions that you asked 12 Q. Well, you agree that the question that 13 consumers in this survey was, "The price of X 13 you asked survey respondents was, "The price of X 14 would have to go up quite a bit before I would 14 would have to go up quite a bit before I would 15 switch to another airline brand," right? 15 switch to another airline brand," right? 16 16 A. Yes. A. Yes. 17 Q. Did you put a specific value on the 17 Q. So the most likely scale that would allow 18 phrase "quite a bit" anywhere in this survey? 18 respondents to answer that question is one that 19 A. This is a standard set of questions. 19 indicates their willingness to pay, right?

84 (Pages 330 - 333)

20 Very -- strongly agree, do not agree, et cetera?

MR. SHEANIN: Objection. Form.

21

22 Foundation.

22 et al.

20 "Willingness to pay" is a common term and is based

21 on a previous scale that's cited there, Netemeyer,

Page 334 Page 336 1 THE WITNESS: That's one way you could 1 switch to another airline brand," right? 2 MR. SHEANIN: Asked and answered. 2 measure it. You could also ask them -- and some 3 3 studies do -- how much would it have to go up THE WITNESS: Yes. 4 before I would switch to another brand? 4 BY MS. DEARBORN: 5 BY MS. DEARBORN: 5 Q. And in answering that question, Q. That would be a different question, 6 respondents were required to indicate their 7 though, right, Dr. Hoyer? 7 response on a sliding scale that went from 8 "strongly disagree" to "strongly agree"? A. It would measure willingness to pay. Q. But you would have to ask a different A. It's not a sliding scale. It's a 10 question in order to evaluate how much the price 10 seven-point scale, and they circle one of the --11 would have to go up in order for them to switch, 11 or indicate one of the numbers from 1 to 7. 12 12 right? Q. I appreciate the clarification. 13 A. Yes. 13 In order to answer the question "The 14 Q. All right. My colleague has helpfully 14 price of X would have to go up quite a bit before 15 pointed out a portion of this article that might 15 I would switch to another airline brand," 16 reflesh -- refresh your recollection as to the way 16 respondents answered on a scale that went from 17 that the scale was worded. 17 "strongly disagree" to "strongly agree"? 18 If you could turn to page 96 of this 18 A. That's correct. 19 article, please. Under "Measures," the last 19 Q. And this question did not ask about a 20 sentence of the first paragraph says, "With few 20 specific dollar amount that the price would go up, 21 exceptions (i.e., consideration of set size, share 21 right? 22 of wallet, and revenue per customer), all items 22 A. It did not. Page 335 Page 337 1 were measured with a seven-point Likert" --Q. And it didn't ask about a specific 2 L-i-k-e-r-t --2 percentage that the price would go up before they 3 A. Likert. 3 would answer that question, right? 4 Q. -- "type scale, anchored by 'strongly 4 A. Yes. 5 disagree' and 'strongly agree." 5 MR. SHEANIN: Object to form. 6 Do you see that? 6 THE WITNESS: Sorry. 7 A. Yes. 7 BY MS. DEARBORN: 8 Q. So the willingness to pay questions are Q. Okay. And you do not think that asking 9 not one of the three exceptions that are listed 9 this question was unreliable in any way, right? 10 10 there, right? MR. SHEANIN: Objection to form. 11 11 THE WITNESS: I don't think it's the best A. That's correct. 12 Q. So the willingness to pay questions were 12 way we could have asked it. In retrospect, I 13 measured with a scale anchored by "strongly 13 would have asked it differently, from what I know 14 disagree" and "strongly agree"? 14 now. But it's just one item on the whole study. 15 MR. SHEANIN: Objection. Form. 15 BY MS. DEARBORN: Q. And you did not define the phrase "quite 16 Go ahead. 16 17 THE WITNESS: That's correct. 17 a bit" in that question, right? 18 BY MS. DEARBORN: 18 A. Correct. 19 Q. Okay. So again, to make sure we have a 19 Q. So you asked respondents, "The price of X 20 clean record with that refreshed recollection, in 20 would have to go up quite a bit before I would 21 this survey you asked consumers, "The price of X 21 switch to another airline brand," without defining 22 would have to go up quite a bit before I would 22 the specific --

85 (Pages 334 - 337)

	Page 338	Page 340
1	A. Yeah.	1 rejected on those grounds.
2	Q price increase, right?	2 BY MS. DEARBORN:
3	A. Yes.	3 Q. Thank you, Dr. Hoyer.
4	Q. The next question under this "Willingness	4 Okay. Let's stay on paragraph 75 of your
5	to pay a price premium" section of questions says,	5 report, please.
	"I am willing to pay a higher price for X than for	6 MR. SHEANIN: Are we done with this
	other airline brands."	7 article?
8	Do you see that?	8 MS. DEARBORN: For the moment.
9	A. Yes.	9 MR. SHEANIN: Okay.
10	Q. Did you define for survey respondents	MS. DEARBORN: I can't promise we won't
11	what a higher price was?	11 return to it.
12	A. I guess we did not.	12 BY MS. DEARBORN:
13	Q. Did you attach a specific dollar amount	Q. Okay. I'd like to focus your attention
14	to that phrase?	14 on paragraph 75(d).
15	A. I'll be frank. Again, this was	So in the second full sentence of this
16	Q. I appreciate it.	16 paragraph, you write, "Professor Simonson's
17	A. No, we did not.	17 hypothetical scenario solely focuses the
18	Q. Did you attach a significant numerical	18 respondents on the cost of display advertising and
19	value to that phrase? How about that?	19 that of other digital advertising types. However,
20	A. No.	20 cost is but one of several factors that drive the
21	Q. Did you attach a specific percentage that	21 choice of an advertising tool" and then you
22	the price would go up in connection with this	22 continue.
	Page 339	Page 341
1	question to consumers?	1 Do you see that?
2	A. No, we did not.	2 A. Yes.
3	Q. And again, you think the answers you got	3 Q. I notice that you don't use the
4	to these questions were reliable?	4 word "focalism" in this paragraph.
5	A. Well, as I just said, in retrospect, I	5 I'm wondering, are you suggesting that
6	would have asked these questions differently, but	6 Dr. Simonson's survey suffered from focalism bias?
7	two wrongs don't make a right.	7 MR. SHEANIN: Objection to form.
8	Q. Was this paper peer reviewed?	8 THE WITNESS: How do you define focalism
9	A. Yes.	9 bias?
10	Q. And the peer reviewers of this academic	10 BY MS. DEARBORN:
11	paper that you co-authored didn't question the	11 Q. Well, why don't you define it for me?
12	phrasing of that question, correct?	12 A. I don't you mean focalism being
13	A. Correct. Because we used an established	13 focused too much on one topic? I don't remember
	scale that had been published elsewhere.	14 the specific definition.
15	Q. But they didn't question your decision	But I'm not talking about focalism so
	not to attach dollar values or percentage	16 much as the realistic nature of the scenario that,
	increases to that "willingness to pay" set of	17 when advertisers buy display advertising, there
18	questions, right?	18 are a number of key factors which they consider,
19	MR. SHEANIN: Objection to form.	19 the most important one being, does it reach my
20	Foundation.	20 target?
21	THE WITNESS: Not that I can recall.	21 And the reason that's important is
122	Again, it's been ten years. But the paper was not	22 because, even if there was a small increase in

86 (Pages 338 - 341)

973-410-4098

Veritext Legal Solutions 800-567-8658

1	Page 458
$\frac{1}{2}$	Q. How would you go about determining
	whether or not different people from the same
	company or from different business units within
4	the same company took the survey?
5	A. You would need a question or data on
6	that. And in his instructions, he it is
7	completely anonymous. And looking back at the
8	backup data, there was no question on what company
	they were from, so there's no way to evaluate
	that.
11	MR. SHEANIN: Thank you. I have no
	further questions.
	_
13	MS. DEARBORN: Nothing further.
14	VIDEO TECHNICIAN: Okay. This now ends
	the deposition of Dr. Wayne Hoyer. We're off the
16	record at 5:16 p.m.
17	(Whereupon, at 5:16 p.m., the videotaped
18	deposition of WAYNE D. HOYER, Ph.D., was
19	concluded.)
20	
21	
22	
	D 450
1	Page 459 CERTIFICATE OF NOTARY PUBLIC
1	
1 2	
2	I, CHRISTINA S. HOTSKO, the officer before
3	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby
3 4	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in
3 4 5	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that
3 4 5 6	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in
3 4 5 6 7	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under
3 4 5 6 7 8	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of
3 4 5 6 7 8 9	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for,
3 4 5 6 7 8 9	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of
3 4 5 6 7 8 9 10	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for,
3 4 5 6 7 8 9 10	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for, related to, nor employed by any of the parties to the
3 4 5 6 7 8 9 10 11 12	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this statement was taken; and,
3 4 5 6 7 8 9 10 11 12 13	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this statement was taken; and, further, that I am not a relative or employee of any
3 4 5 6 7 8 9 10 11 12 13 14	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this statement was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto,
3 4 5 6 7 8 9 10 11 12 13 14 15	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this statement was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the
3 4 5 6 7 8 9 10 11 12 13 14 15 16	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this statement was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.
3 4 5 6 7 8 9 10 11 12 13 14 15	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this statement was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this statement was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action. Dated: March 6, 2024
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this statement was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action. Dated: March 6, 2024 CHRISTINA S. HOTSKO
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this statement was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action. Dated: March 6, 2024 CHRISTINA S. HOTSKO Notary Public in and for the
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this statement was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action. Dated: March 6, 2024 CHRISTINA S. HOTSKO Notary Public in and for the District of Columbia
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	I, CHRISTINA S. HOTSKO, the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotypy and thereafter reduced to typewriting under my direction; that said statement is a true record of the proceedings; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this statement was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome of this action. Dated: March 6, 2024 CHRISTINA S. HOTSKO Notary Public in and for the

116 (Pages 458 - 459)